

## ABSTRACT OF THE DISCLOSURE

This invention concerns a device (1) for the determination of air content, the air separation behavior and the surface foam formation of oils, in particular of transmission oils with an air-oil mixer (2) and a differential pressure sensor (3). A conveyor system (4) transports the oil through pipe lines (5) of the air-oil mixer (2). A compressed air port (6) is provided, which transports air into the pipe lines (5) of the air-oil mixer (2). A Venturi pipe (9) is installed in one of the pipe lines (5), and the differential pressure sensor (3) records, through at least two separate drill tubes (7, 8) in the conveyor system of the oil at the Venturi pipe (9), differential pressures in the oil.